PATENT COOPERATION TREATY

From the

INTERNATIONAL	SEARCHING	AUTHORITY
IIII DIG II LI TOTI ID	OLI IIICIIII IO	

To: LISA A. HAILE GRAY CARY WARE & FREIDENRICH LLP 4365 EXECUTIVE DRIVE, SUITE 1100 SAN DIEGO. CA 92121-2133

PCT

4365 EXECUTIVE DRIVE, SUITE 1100 SAN DIEGO, CA 92121-2133		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
		(PCT Rule 43bis.1)			
		Date of mailing (day/month/year)	0 6 JAN 2006		
Applicant's or agent's file reference		FOR FURTHER ACTION			
JHU2050WO		See paragraph 2 below			
		e (day/month/year) Priority date (day/month/year)			
PCT/US04/34534	20 October 2004 (20.10	0.2004)	20 October 2003 (20.10.2003)		
International Patent Classification (IPC)					
IPC(7): A61K38/00 and US Cl.: 514/12	2; 424/130.1;				
Applicant					
THE JOHNS HOPKINS UNIVERSITY	,				
1. This opinion contains indications relating to the following items:					
Box No. I Basis of the	Basis of the opinion				
Box No. II Priority					
Box No. III Non-estab	establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of ur	f unity of invention				
Box No. V Reasoned applicabili	statement under Rule 43bity; citations and explanati	under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial as and explanations supporting such statement			
Box No. VI Certain do	ocuments cited				
Box No. VII Certain de	fects in the international a	application			
Box No. VIII Certain ob	servations on the internati	he international application			
2. FURTHER ACTION					
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.					
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/ISA/220.					
Name and mailing address of the ISA/	US Date of comp	letion of this	Authorized officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	opinion		Sheek I Huff To Watch		
P.O. Box 1450	13 December	2005 (13.12.2005)	Telephone No. 571 272 1600		
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201			Telephone No. 571-272-1600		

Form PCT/ISA/237 (cover sheet) (April 2005)

Best Available Copy

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/34534

Box No	o. I Basis of this opinion					
1. With r	1. With regard to the language, this opinion has been established on the basis of:					
\boxtimes						
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).					
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
a.	type of material					
	a sequence listing					
	table(s) related to the sequence listing					
b.	format of material					
	on paper					
	in electronic form					
c.	time of filing/furnishing					
	contained in the international application as filed.					
	filed together with the international application in electronic form.					
	furnished subsequently to this Authority for the purposes of search.					
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4. Addit	tional comments:					
!						

Best Available Copy

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/34534

Box No. IV Lack of unity of invention					
1.	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit: paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees				
2:	This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant				
3.	to pay additional fees. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is				
	complied with				
	not complied with for the following reasons:				
	See the lack of unity section of the International Search Report(Form PCT/ISA/210)				
4.	4. Consequently, this opinion has been established in respect of the following parts of the international application:				
	all parts.				
	the parts relating to claims Nos. <u>1-23</u>				

Form PCT/ISA/237 (Box No. IV) (April 2005)

Best Available Copy

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/34534

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)	Claims	NONE	YES			
()		1-23				
Inventive step (IS)		NONE				
	Claims	1-23	NO			
Todayada ay Vigabilian (TAX	Claima	123	YES			
Industrial applicability (IA)		1-23 NONE				
	Ciamis					
2. Citations and explanations:						
Claims 1-23 lack novelty under PCT Article 33(2) a This reference describes the use of a mode. The modulator can be an antagonist and can be cycle molecule. The disorder to be treated includes small claims 1-23 meet the criteria set out in PCT Articles.	ulator of a hed; lopamine. The l cell lung cand	gehog signaling pathway and the use modulator can also be a nucleic acid er.	d, peptide, antibody or small			
be made or used in industry.	. ,,					
		·				